

Name: _____ Due on _____

Pre-Algebra Study Guide: Chapter 2 - COMPLETE ON SEPARATE PAPER!!!!

Directions: To aid you in your study process, use these practice problems to review and assess yourself on your knowledge of certain concepts. You are responsible for all the material in the sections, not just the concepts represented by these problems. Solutions to the study guide will be gone over in class.

Lesson 1

Know the definitions and examples for the following properties

1. Commutative Property of Addition/Multiplication
2. Associative Property of Addition/Multiplication
3. Identity property of addition (Additive Identity)
4. Identify property of multiplication (Multiplicative Identity)

Lesson 2

5. Know the definition for distributive property
6. Apply the distributive property to each expression

A. $2(8 - x)$

B. $-3(x+5)$

C. $-4(x - y)$

Lesson 3

Simplify

7. $2(x + y) - 2y$

8. $5a + 2b + 3a - 7b$

9. $3(2r - 5) + 8(r + 2)$

10. $(-5)(-2c + 3d) + 3(-2d) - (-8d)$

Lesson 4 and 5

SOLVE each equation. Show the balancing of the equation (ie the property of equality). CHECK your work by plugging your value back into the original equation.

11. $k - 23 = -17$

12. $T \div -5 = 15$

13. $7w = -217$

14. $P + 38 = -12$

14. $y - 42 = 12$

15. $11 + x = -8$

16. Is $x = 16$ a solution for $7 - x = 9$, why or why not?

17. Is $x = -2$ a solution for $4x - 5 = 3$, why or why not?

Lesson 6

Write an equation that best matches each scenario, then solve.

18. Catherine traveled some number of miles on Thursday. On Friday, she traveled 22 more miles. Her odometer now reads 53 miles. How far had she traveled on Thursday?

19. Kristin entered the metro with \$3 on her smartrip card. When she clocked out, her card read -\$2.50. How much did her trip cost?

20. Patti had a certain number of lemon bars to split among her 6 family members. If each family member, including Patti, got 2 lemon bars, and there were no left overs, how many did she have to start with?

21. Max's final mad-minute record was 3 times his original score. If his original score was 17, how many did Max get for his record?